



Space related activities in Costa Rican Universities



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Costa Rica Institute of Technology
University of Costa Rica

Context



(wrm.org)

Population: 4,857,274

Economy: agriculture and tourism

Eco Friendly Country



(ucr.ac.cr)



(tec.ac.cr)



Activities in University of Costa Rica

Activities in University of Costa Rica

- Aerospace Engineering Group (GIA - Grupo de Ingeniería Aeroespacial)
- Group of Students and Professors from STEM Careers
- Founded in 2014
- More than 30 members



(GIA)



(GIA)

Activities in University of Costa Rica

- Main focus on education
- Inspire and motivate children and young people, to study a STEM career.
- Rocketry Camps for High School students



(GIA)



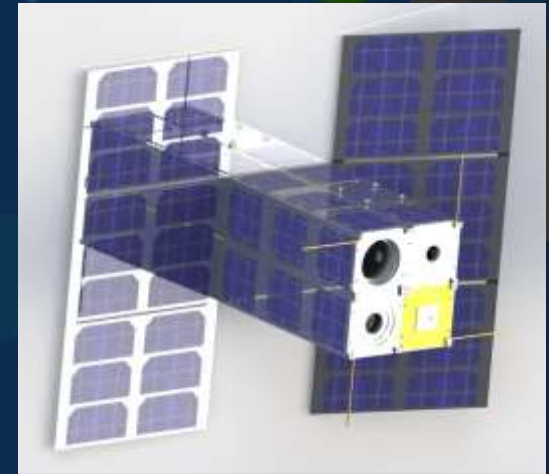
(semanariouniversidad.com)



(GIA)

Activities in University of Costa Rica

- High Power Rocketry Certifications, USA
- PreMIC5, Mexico and Italy



Activities in University of Costa Rica

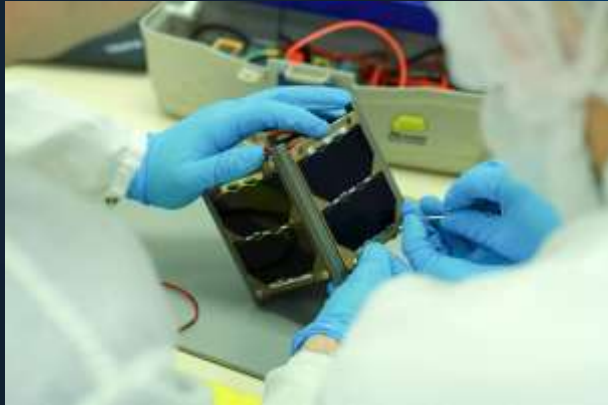
- Accomplishments:
 - 2 Rocketry Camps, and more than 15 presentations
 - 15 certified members
 - First Place at PreMic5 Local Competition in Mexico
 - In house Rockets
- Challenges:
 - Lack of involvement of university staff
 - Limited budget
 - Still without a Lab or facility
- Lessons Learned:
 - Teamwork
 - Students are disposed to work

Activities in Costa Rica Institute of Technology

Activities in Costa Rica Institute of Technology

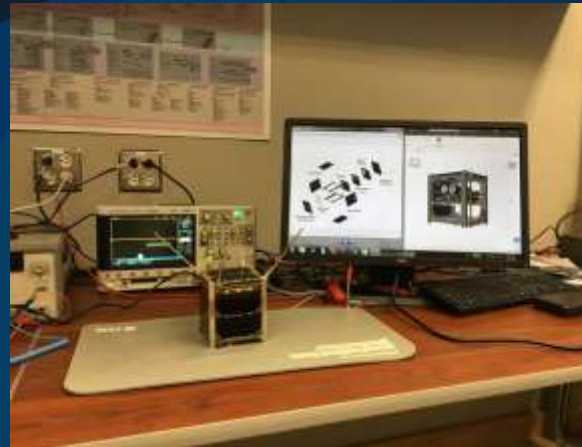
- Project Irazu
- First CubeSat (1U) of Central America
- Proof of concept, to develop human capabilities
- Monitor the carbon fixation of trees

Cert at Kyutech, Japan



Activities in Costa Rica Institute of Technology

- Space System Lab (SETEC Lab)
- Member of IAF
- Member of BIRDS Network, Kyutech



Activities in Costa Rica Institute of Technology

- Accomplishments
 - First Central American Satellite
 - First Central American Space System Lab
 - Members of IAF and BIRDS Network
- Challenges:
 - Not enough involved Professors and Students
 - Limited budget
 - First months of assembly without a Lab
- Lessons Learned:
 - Teamwork
 - Capabilities to build a satellite
 - With a Mission with retribution to the Country, we get support!

Thank You & Pura Vida!

With ♥ from Central America

For More Info:

- Space Systems Lab - TEC: facebook.com/SETECLab
- Aerospace Engineering Group - UCR: facebook.com/GIAUCR
- Olman Quiros-Jimenez: olmanqj@gmail.com